PINOPERIMIRONO DE0826 RESPONSE SEPTEMBER IN 2001, DOC - 25/9/01

-1-

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Chappel, R. et al.

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For:

Leptospira pathogens

**EXHIBIT A** 

APPROVED O.G. FIG.
BY CLASS SUBCLASS
DRAFTSWAN

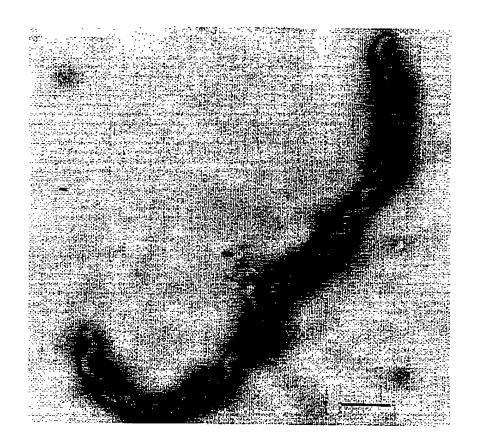


Figure 1

AGCCC

AGATG

CTCGG

TATTG

AGATT

GGTAA

TTTCG

AGATT

TCATA

AGAGA AGAGA

CYNOPTERI

ICTERO-

TCATA

HAEMORRHAGIAE

GGTAA

AGATG

CTCGG

APPROVED OG. FIG.

BY CLNSS SUBCLASS
DRAFTSMAN

100 AGCCC TCCCG TCCCG AGCCC TCCCG TCCCG TCCCG TCCCG TCCCG AGCCC AGCCC AGCCC AGCCC AGCCC TCCLL AGATG GATAG GATAG GATGG GATAG GATAG GATAG AGATG AGATG AGATG GATGG GATGG AGCTG AGATG AGATG TACCG TACCG TACTG TACTG TACTG TACIG TACTG TACTG TACTG CTTGG CITIGG CTCGG CTCGG CTTGG CTCGG CICGG GCTAA GCTAA GCTAA GCTAA GCTAA GCTAA GCTAA GCTAA GCTAA TATTG TATTG CATTG TATTG CATTG CATTG TATTG GGAAA GGAAA GGGGA GGGGA GGGAA GGGGA GGGAA GGGAA GGGAA AGATT AGATT AGATT AGATT AGATT AGATT AGATT GGTAA CGAAA CGAAA CGAAA CGAAA CGAAA CGAAA CGAAA GGTAA GGTAA GGTAA GGTAA GGTAA CGAAA CGAAA GGTAA CTITC CITIC CILIC CTTTC TGATA CTLLE CTTTC CTTTC CTTTC CTTTC TGATA TTTCG TTTCG TATCG TTTCG TITCG GATAA GATAA GATAA GATAA GATAA GATAA GATAA GATAA GATAA AGATT GGATC AGATT GGATG TGATT GGATT AGATT TCTGG TCTGG TCTGG TCTGG TCATA TCTGG TCTGG TCTGG TCTGG TCACA TCATA TCATA TCATA TCATA TCACA CCGAG CCGAG CCGAG CCGAG CCGAG CCGAG CCGAG CTGGA CCGAG CTGAG TTGGA AGAGA AGAGG ATAGA AGAGG AGAGA HAEMORRHAGIAE HURSTBRIDGE HURSTBRIDGE CELLEDONI CYNOPTERI CELLEDONI SHERMANI JAVANICA JAVANICA SHERMANI RANARUM RANARUM ICTERO-PANAMA PANAMA LYME CYME

Figure 2a

GGTCC

GACAC

ATGGA ACTGA

CCACA

TTCGG

GGGTG

TGAGA

22992

GTAGC

CYNOPTERI

ICTERO-

HAEMORRHAGIAE

ACTGA

ATGGA

CCACA

FIG.	SLINSS SUBCLASS	
APPROVED O G. FIG.	BY 72.78	DHAFTSMAN

200 GATCG GATCG GATCG GATCG GATCG GATCG GATCG GATCG GATCG GGTCC GGTCC GGTCC GGTCC GGTCC GGTCC GGTCC GCGAC GCGAC GCGAC GCGAC GCGAC GCGAC GCGAC GCGAC GACAC GACAC GACAC GACAC GACAC GACAC GACAC CCAAG CCAAG CCAAG CCAAG CCAAG ACTGA CCAAG CCAAG CCAAG CCAAG ACTGA ACTGA ACTGA ACTGA ACTGA ACTGA GCTCA GCTCA CCACA ATGGA ATGGA CCACA ATGGA ATGGA ATGGA GCTCA GCTCA GCTCA GCTCA GCTCA ATGGA ATGGA GCTCA TAAIG TAAAG TAATG TAATG TAAAG CCACA CCACA CCACA CCACA **TAATG** TAATG TAAAG CCACA TAAAG TGAGG TGAGG TGAGG TGAGG TGAGG TGAGG TGAGG TGAGG TCCGG TGAGG TCCGG TTCGG Trage TTCGG TTCGG TTCGG GTIGG GTIGG GTTGG CGAIT AGCIA GIIGG GITGG GTIGG GTIGG GTTGG GTTGG GGGTG GGGTG GGGTG GGGTG GGGTG GGGTG GGGTG AGCTA AGCTA AGCTA AGCTA AGCTA AGCTA ASCTA AGCTA TGAGA TGAGA TGAGA TGAGA TGAGA TGAGA TGAGA CGATT CGATT CGATT CGATT CGATT CGATT CGATT CGGCC CGGCC CGALT CGGCC CGGCC CGGCC CGGCC CGGCC GCGCC 20000 GCGTC 20000 3**25**25 GCGTC GTAAC GCGIC GCGTC GTAGC GTAGC STAGC GTAGC GTAGC GTAGC 151 HAEMORRHAGIAE HURSTBRIDGE HURSTBRIDGE CELLEDONI CYNOPTERI CELLEDONI SHERMANI JAVANICA JAVANICA SHERMANI RANARUM ICTERO-RANARUM PANAMA PANAMA LYME LYME

Figure 2b